

PAT-NO: JP02001020049A  
DOCUMENT-IDENTIFIER: JP 2001020049 A  
TITLE: HOT DIP Zn-Al-Mg PLATED STEEL EXCELLENT IN  
CORROSION RESISTANCE UNDER NONCOATING AND AFTER COATING AND  
ITS PRODUCTION  
PUBN-DATE: January 23, 2001

INVENTOR-INFORMATION:

NAME	COUNTRY
TAKAHASHI, AKIRA	N/A
TANAKA, AKIRA	N/A
SUEMUNE, YOSHIHIRO	N/A
NISHIMURA, KAZUMI	N/A
FUJII, SHIRO	N/A

ASSIGNEE-INFORMATION:

NAME	COUNTRY
NIPPON STEEL CORP	N/A

APPL-NO: JP11192079  
APPL-DATE: July 6, 1999

INT-CL (IPC): C23C002/06, C22C018/04 , C23C002/26 , C23C002/40

ABSTRACT:

PROBLEM TO BE SOLVED: To produce plated steel having stably high corrosion resistance even in the case it has a Zn-Al-Mg base plating layer whose metallic structure inevitably changes in the case of industrial production and to provide a method for producing it.

SOLUTION: In the method for producing hot dip plating in which the coating weight of plating is 10 to 400 g/m<sup>2</sup>, and the compsn. of the plating layer is composed of, by weight, 3 to 15% Al and 1 to 8% Mg, and the balance Zn with inevitable impurities, by atomizing powder from an aq. soln. of Mg hydrogen phosphate or Mg silicate before the solidification of plating metal after bath

dipping, the plated steel excellent in uniform appearance and excellent in corrosion resistance under uncoating and after coating is obtd. In the plating layer, Mg hydrogen phosphate or Mg silicate is contained by 0.1 to 1000 mg/m<sup>2</sup>.

COPYRIGHT: (C) 2001, JPO